This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF CUMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. How 1450
Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

009629

7590

10/16/2003

MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004

EXA	MINER
NGUYE	N, THINH T
ARTINIT	PAPER NUMBER

2818 DATE MAILED: 10/16/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/754.253	01/05/2001	Takamasa Yoshikawa	041514-5104	3794

TITLE OF INVENTION: IMAGE PICKUP DEVICE INCLUDING ELECTRON-EMITTING DEVICES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330	5300	\$1630	01/16/2004	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMA1.L ENTITY status. Sec 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL, should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

	•		or <u>Fax</u>	(703) 746-4000	•	
appropriate. All further of	form should be used for trans correspondence including the P d below or directed otherwise ions.	atent, advance or	ders and notification	in of maintenance fees	will be mailed to the current	correspondence address as
CURRENT CURRESPONDE	NUE ADDRESS (Note: Logibly mark-up	with any corrections or	use Hlack 1)	Note: A certificate of	of mailing can only be used f	or domestic mailings of the
				papers. Each addition	This certificate cannot be used nal paper, such as an assignm	for any other accompanying ent or formal drawing, mus
009629	7590 10/16/2003			have its own certification	ate of mailing or transmission.	
	WIS & BOCKIUS LLP VANIA AVENUE NW , DC 20004	•		I hereby certify that States Postal Service addressed to the M	ertificate of Mailing or Trans this Fee(s) Transmittal is bein with sufficient postage for fit all Stop ISSUE FEE address PTO, on the date indicated be	g deposited with the Unite st class mail in an envelop above, or being facsimil
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	7	FIRST NAMED INV	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/754,253	01/05/2001		Takamasa Yoshi	kawa	041514-5104	3794
	IMAGE PICKUP DEVICE IN				T	
APPLN, TYPE	SMALL ENTITY	ISSUE F		PUBLICATION FEE	TOTAL FEE(S) DUF	DATE DUE
nonprovisional	NO	\$1330)	\$300	\$1630	01/16/2004
EXA	MINER	ART UN	ÍΤ	CLASS-SUBCLASS		
NGUYE	n, thinh t	2818		257-010000		
PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN PLEASE NOTE: Unle.	ation (or "Fee Address" Indicati for more recent) attached. Use ID RESIDENCE DATA TO BE as an assignce is identified belated to the USPTO or is being st	of a Customer PRINTED ON Tow, no assignee dubmitted under se	agent) and the attorneys or age will be printed. THE PATENT (print ata will appear on a parate cover. Comp	he patent, Inclusion of	assignce data is only appropri	ate when an assignment ha ignment.
Please check the appropria	ate assignce category of categor		inted on the patent) . Payment of Fee(s		corporation or other private g	roup entity U governmen
U Issue Fee				mount of the fee(s) is co	nclosed.	48
☐ Publication Fee			() Payment by cree	lit card. Form PTO-203	8 is attached.	
☐ Advance Order - # o	of Copies		U The Director is Deposit Account N	hereby authorized by	charge the required fee(s), or (enclose an extra c	credit any overpayment, to
Director for Patents is requ	ested to apply the Issue Fee an	d Publication Fee				
(Authorized Signature)		(Date)				
NOTE; The Issue Feu a other than the applicant interest as shown by the	and Publication Fee (if require ; a registered attorney or age records of the United States Pat	d) will not be ac- nt; or the assigna- tent and Trademar	cepted from anyon te or other party i k Office.	e		
obtain or retain a benefit application, Confidential estimated to take 12 min completed application for case. Any comments or suggestions for reducing Patent and Trademark 22313-1450, DO NOT	nation is required by 37 CFR it by the public which is to fil ity is governed by 35 U.S.C. 12 utes to complete, including garm to the USPTO. Time will in the amount of time you rethis burden, should be sent to Office, U.S. Department of SEND FEIS OR COMPLET of Patents, Alexandria, Virgier of Patents, Alexandria, Virg	e (and by the US 12 and 37 CFR 1.1 thering, preparing vary depending equire to complet to the Chief Inform of Commerce, A TED FORMS TO	PTO to process) a 4. This collection i 4. and submitting th 4. upon the individua 5. this form and/ 6. mation Officer, U.S.			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. BOX 1450 Alexandria, Vorginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/754,253	01/05/2001	Takamasa Yoshikowa	041514-5104	3794
009629	7590 10/16/2003		EXAM	INER
MORGAN LE	WIS & BOCKIUS LLP		NGUYEN.	THIN'II T
1111 PENNSYL WASHINGTON	VANIA AVENUE NW		ART UNIT	PAPER NUMBER
WASIMIOTOR			2818	

DATE MAILED: 10/16/2003

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 436 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 436 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Hon 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/754,253	01/05/2001	Tukamasa Yoshikawa	041514-5104	104 3794
009629	7590 10/16/2003		EXAM	INER
	WIS & BOCKIUS LLP		NGUYEN, TIIINH T	
WASHINGTON	LVANIA AVENUE NW N. DC 20004		ART UNIT	PAPER NUMBER
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	2R18	
			DATE MAILED: 10/16/2003	3

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

By a small cntity (Sec. 1.27(a))......\$320.00

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	09/754,253	YOSHIKAWA ET AL	
Notice of Allowability	Examin r	Art Unit	<u></u>
*	Thinh T Nguy n	2818	
	Timin Finguy II	2010	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS the rewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OF TH	(OR REMAINS) CLOSED in or other appropriate comming GHTS. This application is:	n this application. If not include unication will be mailed in due o	ourse. THIS
1. This communication is responsive to 8/14/2003.			
2. The allowed claim(s) is/are <u>1-8</u> .			
3. $igotimes$ The drawings filed on <u>1/05/2001</u> are accepted by the Exam	niner.		į.
 Acknowledgment is made of a claim for foreign priority unc a)	ler 35 U.S.C. § 119(a)-(d) o	r (f).	
1. Certified copies of the priority documents have	been received.	•	10.5
2. Certified copies of the priority documents have	been received in Application	on No	
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage applicat	ion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority up	nder 35 U.S.C. § 119(e) (to	a provisional application).	
(a) The translation of the foreign language provisional a	pplication has been receive	d.	j
6. Acknowledgment is made of a claim for domestic priority up	nder 35 U.S.C. §§ 120 and/	or 121.	l
Applicant has THREE MONTHS FROM THE "MAILING DATE" of b low. Failure to timely comply will result in ABANDONMENT of	this application. THIS THE	REE-MONTH PERIOD IS NOT	EXTENDABLE.
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which gives reas 			OTICE OF
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No	. *		
(b) including changes required by the proposed drawing of	correction filed, whi	ch has been approved by the E	xaminer.
(c) including changes required by the attached Examiner	s Amendment / Comment of	or in the Office action of Paper I	۷o
Identifying indicia such as the application number (see 37 CFR 1. each sheet.	84(c)) should be written on t	he drawings in the front (not the	back) of
9. DEPOSIT OF and/or INFORMATION about the deposattached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MAT HE DEPOSIT OF BIOLOGI	ERIAL must be submitted. N CAL MATERIAL.	ote the
Attachm nt(s)			
Notice of References Cited (PTO-892)	4∏ Interview 6∭ Examine	of Informal Patent Application (F w Summary (PTO-413), Paper er's Amendment/Comment er's Statement of Reasons for A	No
			1

Application/Control Number: 09/754,253

Art Unit: 2818

DETAILED ACTION

Reason for allowance

1. Claims 1-8 are allowed. The following is an examiner's statement of reasons for allowance:

A/ Applicant filing of the Terminal Disclaimer has overcome the double patenting rejection.

B/ None of the references of record teaches or suggests the claimed "image pickup device including electron-emitting devices" having a structure that includes:

-- "a pair of first and second substrates facing each other with a vacuum space interposed therebetween the second substrate being transparent; a plurality of electron-emitting devices provided over said first substrate on a side of the vacuum space, said electron-emitting devices each comprising:

an insulating layer deposited over an electron source layer which is formed over an ohmic electrode; and a metal thin film electrode deposited over said insulating layer, wherein said insulating layer and said metal thin film electrode include an island region as an electron-emitting section in which film thicknesses thereof are gradually reduced toward said electron source layer; and a photoconductive layer provided over said second substrate on a side of the vacuum space to photoelectrically convert an incid nt

Application/Control Number: 09/754,253

Art Unit: 2818

light passing the second substrate into an electric signal. " --

in Claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 703-305-0421. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9319 for After Final communications.

Application/Control Number: 09/754,253

Art Unit: 2818

Page 4

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Thinh T Nguyen

Art unit 2818

Chavid Nelms Supervisory Patent Examiner

Technology Center 2800